Amendments to the Claims:

Please amend the claims as follows:

1. (Previously Presented): A method of forming a capacitor, comprising:

forming a first capacitor electrode over a semiconductor substrate;

forming a capacitor dielectric region onto the first capacitor electrode, the capacitor dielectric region comprising an exposed oxide-containing surface;

treating the exposed oxide-containing surface of the capacitor dielectric region with at least one of a borane or a silane without depositing any layer onto the exposed oxide-containing surface during any of said treating; and

after said treating with at least one of the borane or the silane without depositing any layer onto the exposed oxide-containing surface during any of said treating, then forming a second capacitor electrode over the treated oxide-containing surface, the second capacitor electrode comprising an inner metal surface contacting against the treated oxide-containing surface, the depositing the second capacitor electrode comprises using a halogen-containing gas, said treating of the exposed oxide-containing surface of the capacitor dielectric region being effective to reduce halogen incorporation into the capacitor dielectric region than would otherwise occur in the absence of said treating.

- 2. (Original): The method of claim 1 wherein the first capacitor electrode consists essentially of semiconductive material.
- 3. (Original): The method of claim 1 wherein the first capacitor electrode consists essentially of metal.
- 4. (Previously Presented): The method of claim 1 wherein the exposed oxide-containing surface comprises hafnium oxide.
- 5. (Previously Presented): The method of claim 1 wherein the exposed oxide-containing surface comprises aluminum oxide.
- 6. (Original): The method of claim 1 wherein the treating is with at least one borane.
- 7. (Original): The method of claim 6 wherein all borane used during the treating is void of halogen.
- 8. (Original): The method of claim 6 wherein the borane is selected from the group consisting of BH_3 , B_2H_6 , B_4H_{10} , B_5H_9 , B_6H_{10} and $B_{10}H_{14}$, and mixtures thereof.

- 9. (Original): The method of claim 1 wherein the treating is with at least one silane.
- 10. (Original): The method of claim 9 wherein all silane used during the treating is void of halogen.
- 11. (Original): The method of claim 9 wherein the silane is selected from the group consisting of SiH_4 , Si_2H_6 , Si_3H_8 and Si_4H_{10} , and mixtures thereof.

Claims 12-15 (Canceled).

- 16. (Original): The method of claim 1 wherein the treating comprises a temperature from 200°C to 500°C, and a pressure from 1 Torr to 100 Torr.
- 17. (Original): The method of claim 1 wherein the treating is for at least 1 second.
- 18. (Original): The method of claim 1 wherein the treating is for at least 10 seconds.
- 19. (Original): The method of claim 1 wherein the inner metal surface comprises an elemental metal or an alloy of elemental metals.

- 20. (Original): The method of claim 19 wherein the inner metal surface comprises tungsten.
- 21. (Original): The method of claim 1 wherein the inner metal surface comprises a conductive metal compound.
- 22. (Original): The method of claim 21 wherein the inner metal surface comprises TiN.
- 23. (Original): The method of claim 1 wherein the second capacitor electrode consists essentially of metal.
- 24. (Previously Presented): The method of claim 1 comprising conducting the treating to be effective to reduce leakage current of the capacitor than would otherwise occur in the absence of said treating.
- 25. (Previously Presented): The method of claim 1 wherein the exposed oxide-containing surface comprises OH groups, the treating being effective to passivate said OH groups.

Claims 26-31 (Canceled).

- 32. (Original): The method of claim 1 wherein the first capacitor electrode consists essentially of semiconductive material and the second capacitor electrode consists essentially of metal thereby forming an MIS capacitor.
- 33. (Original): The method of claim 1 wherein the first capacitor electrode consists essentially of metal and the second capacitor electrode consists essentially of metal thereby forming an MIM capacitor.

34. (Previously Presented): A method of forming a capacitor, comprising:

forming a first capacitor electrode over a semiconductor substrate; forming a capacitor dielectric region onto the first capacitor electrode, the capacitor dielectric region comprising an exposed oxide-containing surface:

treating the exposed oxide-containing surface of the capacitor dielectric region with at least one of a borane or a silane at a temperature from 200°C to 500°C and a pressure from 1 Torr to 100 Torr for at least 1 second, the treating being void of depositing any layer onto the exposed oxide-containing surface during any of said treating; and

after said treating with at least one of the borane or the silane which is void of depositing any layer onto the exposed oxide-containing surface during any of said treating, then forming a second capacitor electrode consisting essentially of metal over the treated oxide-containing surface, the second capacitor electrode comprising an inner metal surface contacting against the treated oxide-containing surface, the depositing the second capacitor electrode comprises using a halogen-containing gas, said treating of the exposed oxide-containing surface of the capacitor dielectric region being effective to reduce halogen incorporation into the capacitor dielectric region than would otherwise occur in the absence of said treating.

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- 35. (Previously Presented): The method of claim 34 wherein the exposed oxide-containing surface comprises hafnium oxide.
- 36. (Previously Presented): The method of claim 34 wherein the exposed oxide-containing surface comprises aluminum oxide.
- 37. (Original): The method of claim 34 wherein the treating is with at least one borane.
- 38. (Original): The method of claim 37 wherein all borane used during the treating is void of halogen.
- 39. (Original): The method of claim 37 wherein the borane is selected from the group consisting of BH_3 , B_2H_6 , B_4H_{10} , B_5H_9 , B_6H_{10} and $B_{10}H_{14}$, and mixtures thereof.
- 40. (Original): The method of claim 34 wherein the treating is with at least one silane.
- 41. (Original): The method of claim 40 wherein all silane used during the treating is void of halogen.

42. (Original): The method of claim 40 wherein the silane is selected from the group consisting of SiH_4 , Si_2H_6 , Si_3H_8 and Si_4H_{10} , and mixtures thereof.

Claim 43 (Canceled).

- 44. (Original): The method of claim 34 wherein the treating is for at least 10 seconds.
- 45. (Original): The method of claim 34 wherein the inner metal surface comprises an elemental metal or an alloy of elemental metals.
- 46. (Original): The method of claim 45 wherein the inner metal surface comprises tungsten.
- 47. (Original): The method of claim 34 wherein the inner metal surface comprises a conductive metal compound.
- 48. (Original): The method of claim 47 wherein the inner metal surface comprises TiN.

- 49. (Original): The method of claim 34 wherein the treating is effective to reduce leakage current of the capacitor than would otherwise occur in the absence of said treating.
- 50. (Previously Presented): The method of claim 34 wherein the exposed oxide-containing surface comprises OH groups, the treating being effective to passivate said OH groups.

Claims 51-124 (Canceled).

- 125. (Previously Presented): The method of claim 1 wherein the treating is with at least one borane and with at least one silane.
- 126. (Previously Presented): The method of claim 34 wherein the treating is with at least one borane and with at least one silane.

Claims 127 and 128 (Canceled).

129. (Previously Presented): A method of forming a capacitor, comprising:

forming a first capacitor electrode over a semiconductor substrate;

forming a capacitor dielectric region onto the first capacitor electrode, the capacitor dielectric region comprising an exposed oxide-containing surface:

treating the exposed oxide-containing surface of the capacitor dielectric region with at least one borane and with at least one silane; and

forming a second capacitor electrode over the treated oxide-containing surface, the second capacitor electrode comprising an inner metal surface contacting against the treated oxide-containing surface the surface, the depositing the second capacitor electrode comprises using a halogen-containing gas, said treating of the exposed oxide-containing surface of the capacitor dielectric region being effective to reduce halogen incorporation into the capacitor dielectric region than would otherwise occur in the absence of said treating.